

## Appointment

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**From:** Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DDF7BCF023D241A9A477A2DC75D5901C-BUNKER, BYRON]  
**Sent:** 7/13/2017 2:12:29 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]; Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Subject:** Call with Dan Carder  
**Location:** Dan will call Byron's Office (734) 214-4155  
**Start:** 7/14/2017 4:00:00 PM  
**End:** 7/14/2017 4:30:00 PM  
**Show Time As:** Busy

## Appointment

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**From:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Sent:** 7/13/2017 2:13:42 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]

**Subject:** Accepted: Call with Dan Carder  
**Location:** Dan will call Byron's Office (734) 214-4155

**Start:** 7/14/2017 4:00:00 PM  
**End:** 7/14/2017 4:30:00 PM  
**Show Time As:** Busy

**Recurrence:** (none)

## Appointment

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**From:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Sent:** 7/14/2017 4:03:20 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]

**Subject:** Tentative: Call with Dan Carder  
**Location:** Dan will call Byron's Office (734) 214-4155

**Start:** 7/14/2017 4:00:00 PM  
**End:** 7/14/2017 4:30:00 PM  
**Show Time As:** Busy

**Recurrence:** (none)

## Appointment

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**From:** Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DDF7BCF023D241A9A477A2DC75D5901C-BUNKER, BYRON]  
**Sent:** 7/13/2017 2:12:28 PM  
**To:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Subject:** Call with Dan Carder  
**Location:** Dan will call Byron's Office (734) 214-4155  
**Start:** 7/14/2017 4:00:00 PM  
**End:** 7/14/2017 4:30:00 PM  
**Show Time As:** Tentative

## Appointment

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**From:** Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DDF7BCF023D241A9A477A2DC75D5901C-BUNKER, BYRON]  
**Sent:** 7/13/2017 2:12:29 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]; Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Subject:** Call with Dan Carder  
**Location:** Dan will call Byron's Office (734) 214-4155  
**Start:** 7/14/2017 4:00:00 PM  
**End:** 7/14/2017 4:30:00 PM  
**Show Time As:** Busy

Message

---

**From:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Sent:** 11/2/2017 7:25:28 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]  
**Subject:** Call request

Byron,

Hope all is well on your side.

Would you have any availability for a 5-minute (or less) call tomorrow (11/3)?

Best regards,  
Dan

---

Dan Carder  
Director, Center for Alternative Fuels, Engines and Emissions  
Department of Mechanical and Aerospace Engineering  
Benjamin M. Statler College of Engineering and Mineral Resources  
West Virginia University  
Ph: 304-288-7917 (mobile)/ 304-293-0650 (office)  
Daniel.Carder@mail.wvu.edu

Message

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**From:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Sent:** 11/13/2018 9:12:35 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]  
**CC:** Cook, Leila [cook.leila@epa.gov]  
**Subject:** Re: Meeting Request

Hi Byron,

Thank you for the quick response and good wishes. I understand the position you must take. Perhaps I can find some EPA presentations or statements in the public domain regarding the important role of such capabilities in achieving future emission reductions. We will keep you updated as to the progress.

Best regards,  
Dan

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Dan Carder  
Director, Center for Alternative Fuels, Engines and Emissions  
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Benjamin M. Statler College of Engineering and Mineral Resources  
West Virginia University  
Ph: 304-288-7917 (mobile)/ 304-293-0650 (office)  
Daniel.Carder@mail.wvu.edu

---

**From:** Bunker, Byron <bunker.byron@epa.gov>  
**Sent:** Tuesday, November 13, 2018 1:50 PM  
**To:** Daniel Carder  
**Cc:** Cook, Leila  
**Subject:** RE: Meeting Request

Hi Dan,

Thanks for your note and congratulations on getting going on this project. I know how very hard it can be to get something like this going and that the first steps are always the hardest.

While I am personally a big believer in the value of research universities growing their laboratory facilities to better serve their students and their research mission, we do not generally provide the kind of letter that you are seeking. Commercial and public laboratories frequently seek an EPA endorsement that they can use as a "good housekeeping seal" for potential customers. For those, we definitely don't provide an endorsement believing the ISO auditing procedures are the more appropriate venue for laboratories to demonstrate they are properly run and managed.

I know that your request is a little more generic looking for support in the need for the kinds of research that the new facilities will enable, but I still think it falls within realm of an EPA endorsement that we generally do not provide.

I am sorry that this response isn't more helpful to you, and I do very sincerely hope that you and your team are able to stand up these new facilities. Based on your track record, I am sure you will make good use of them.

Thanks,

Byron

\*\*\*\*\*

Byron Bunker  
Director Compliance Division  
Office of Transportation and Air Quality  
Environmental Protection Agency  
2000 Traverwood Drive  
Ann Arbor, MI 48105  
Bunker.Byron@epa.gov  
Phone: (734) 214-4155  
Mobile: (734) 353-9623

\*\*\*\*\*

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**From:** Daniel Carder <Daniel.Carder@mail.wvu.edu>  
**Sent:** Tuesday, November 13, 2018 12:14 PM  
**To:** Bunker, Byron <bunker.byron@epa.gov>  
**Subject:** Meeting Request

Hello Byron,

Hope all is well with you.

WVU and AVL have formally entered into a collaboration aimed at significantly improving our heavy-duty engine and vehicle testing and research capabilities. The first two phases of our effort will involve installation of a heavy-duty vehicle chassis dynamometer (equivalent specifications as the ARB Riverside facility) and a powerpack/powertrain dynamometer test cell in Morgantown. Our goal is to provide an objective, third-party resource for future technology development, particularly focused on low-NOx and GHG. Our value proposition is our objectivity and our dedication to educating the next generation of engineers for our field. We would like to present our plans to those within the EPA that would be most interested. My immediate goal is to seek letters of support for this effort from industry and regulatory stakeholders that I will present to our Board of Governors. We have been meeting with a number of OEMs and tier suppliers, and, so far, the response has been overwhelmingly positive.

I'll be at the EMTC meeting Thursday, but realize this is extremely short notice (perhaps just a quick overview to someone in order to gauge interest). We are traveling to a number of the on-road OEMs, but have availability after December 3. Please let us know if there is interest/availability.

Best regards,  
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Dan Carder



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Ph: 304-288-7917 (mobile)/ 304-293-0650 (office)  
[Daniel.Carder@mail.wvu.edu](mailto:Daniel.Carder@mail.wvu.edu)

Message

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**From:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Sent:** 11/13/2018 5:14:18 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]  
**Subject:** Meeting Request

Hello Byron,

Hope all is well with you.

WVU and AVL have formally entered into a collaboration aimed at significantly improving our heavy-duty engine and vehicle testing and research capabilities. The first two phases of our effort will involve installation of a heavy-duty vehicle chassis dynamometer (equivalent specifications as the ARB Riverside facility) and a powerpack/powertrain dynamometer test cell in Morgantown. Our goal is to provide an objective, third-party resource for future technology development, particularly focused on low-NOx and GHG. Our value proposition is our objectivity and our dedication to educating the next generation of engineers for our field. We would like to present our plans to those within the EPA that would be most interested. My immediate goal is to seek letters of support for this effort from industry and regulatory stakeholders that I will present to our Board of Governors. We have been meeting with a number of OEMs and tier suppliers, and, so far, the response has been overwhelmingly positive.

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Benjamin M. Statler College of Engineering and Mineral Resources  
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Daniel.Carder@mail.wvu.edu

## Appointment

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**From:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Sent:** 7/14/2017 4:03:20 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]

**Subject:** Tentative: Call with Dan Carder  
**Location:** Dan will call Byron's Office (734) 214-4155

**Start:** 7/14/2017 4:00:00 PM  
**End:** 7/14/2017 4:30:00 PM  
**Show Time As:** Busy

**Recurrence:** (none)

When: Jul 14, 2017 12:00:00 PM  
Where: Dan will call Byron's Office (734) 214-4155  
--

Message

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**From:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Sent:** 7/13/2017 1:57:00 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]  
**Subject:** Re: Call request

Byron,

I will give you a call at noon tomorrow. Look forward to talking with you.

Dan

---

Dan Carder  
Director, Center for Alternative Fuels, Engines and Emissions  
Department of Mechanical and Aerospace Engineering  
Benjamin M. Statler College of Engineering and Mineral Resources  
West Virginia University  
Ph: 304-288-7917 (mobile)/ 304-293-0650 (office)  
Daniel.Carder@mail.wvu.edu

---

**From:** Bunker, Byron <bunker.byron@epa.gov>  
**Sent:** Thursday, July 13, 2017 8:11 AM  
**To:** Daniel Carder  
**Subject:** RE: Call request

Hi Dan,

I have time on my calendar tomorrow (Friday) between noon and 1:30. Please let me know if sometime in that window can work for you.

Thanks,

Byron

\*\*\*\*\*

Byron Bunker  
Director Compliance Division  
Office of Transportation and Air Quality  
Environmental Protection Agency  
2000 Traverwood Drive  
Ann Arbor, MI 48105  
[Bunker.Byron@epa.gov](mailto:Bunker.Byron@epa.gov)  
Phone: (734) 214-4155  
Mobile: (734) 353-9623

\*\*\*\*\*

---

**From:** Daniel Carder [mailto:Daniel.Carder@mail.wvu.edu]  
**Sent:** Wednesday, July 12, 2017 1:25 PM  
**To:** Bunker, Byron <bunker.byron@epa.gov>  
**Subject:** Re: Call request

Byron,

Sorry that we haven't been able to connect. Would you have any opportunity in the near future?

thanks,  
Dan

---

Dan Carder  
Director, Center for Alternative Fuels, Engines and Emissions  
Department of Mechanical and Aerospace Engineering  
Benjamin M. Statler College of Engineering and Mineral Resources  
West Virginia University  
Ph: 304-288-7917 (mobile)/ 304-293-0650 (office)  
[Daniel.Carder@mail.wvu.edu](mailto:Daniel.Carder@mail.wvu.edu)

---

**From:** Bunker, Byron <[bunker.byron@epa.gov](mailto:bunker.byron@epa.gov)>  
**Sent:** Wednesday, June 14, 2017 1:38 PM  
**To:** Daniel Carder  
**Subject:** RE: Call request

Hi Dan,

Yes, I can make time for a call. I am available now until 2 PM and then again between 3 and 4. Tomorrow is booked solid, but I can make time on Friday.

Just call my office now (734) 214-4155 or let me know if another time will work and I can call you then.

Thanks,

Byron

\*\*\*\*\*

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Environmental Protection Agency  
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Phone: (734) 214-4155  
Mobile: (734) 353-9623

\*\*\*\*\*

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**From:** Daniel Carder [<mailto:Daniel.Carder@mail.wvu.edu>]

**Sent:** Wednesday, June 14, 2017 1:13 PM

**To:** Bunker, Byron <[bunker.byron@epa.gov](mailto:bunker.byron@epa.gov)>

**Subject:** Call request

Byron,

Would you have any time for a call in the coming days?

Thanks,

Dan

---

Dan Carder

Director, Center for Alternative Fuels, Engines and Emissions

Department of Mechanical and Aerospace Engineering

Benjamin M. Statler College of Engineering and Mineral Resources

West Virginia University

Ph: 304-288-7917 (mobile)/ 304-293-0650 (office)

[Daniel.Carder@mail.wvu.edu](mailto:Daniel.Carder@mail.wvu.edu)

Message

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**From:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Sent:** 7/12/2017 5:24:49 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]  
**Subject:** Re: Call request

Byron,

Sorry that we haven't been able to connect. Would you have any opportunity in the near future?

thanks,  
Dan

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**From:** Daniel Carder [mailto:[Daniel.Carder@mail.wvu.edu](mailto:Daniel.Carder@mail.wvu.edu)]  
**Sent:** Wednesday, June 14, 2017 1:13 PM  
**To:** Bunker, Byron <[bunker.byron@epa.gov](mailto:bunker.byron@epa.gov)>  
**Subject:** Call request

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[Daniel.Carder@mail.wvu.edu](mailto:Daniel.Carder@mail.wvu.edu)



Message

---

**From:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Sent:** 6/14/2017 8:12:04 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]  
**Subject:** RE: Call request

Byron,

Thanks for the reply. Since you're busy, let me know about Friday, had to go to the doctor for a procedure. I'm pretty open, just internal meetings.

Thanks,  
Dan

On Jun 14, 2017 1:38 PM, "Bunker, Byron" <bunker.byron@epa.gov> wrote:

Hi Dan,

Yes, I can make time for a call. I am available now until 2 PM and then again between 3 and 4. Tomorrow is booked solid, but I can make time on Friday.

Just call my office now (734) 214-4155 or let me know if another time will work and I can call you then.

Thanks,

Byron

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**Sent:** Wednesday, June 14, 2017 1:13 PM

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**Subject:** Call request

Byron,

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Ph: 304-288-7917 (mobile)/ 304-293-0650 (office)

Daniel.Carder@mail.wvu.edu

Message

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**To:** Bunker, Byron [bunker.byron@epa.gov]  
**Subject:** Call request

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Department of Mechanical and Aerospace Engineering  
Benjamin M. Statler College of Engineering and Mineral Resources  
West Virginia University  
Ph: 304-288-7917 (mobile)/ 304-293-0650 (office)  
Daniel.Carder@mail.wvu.edu

Message

---

**From:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Sent:** 2/16/2017 4:07:01 PM  
**To:** Bunker, Byron [bunker.byron@epa.gov]  
**Subject:** Meeting Request

Byron,

Hope all is well on your end.

I would like to talk to you briefly about some planning for future capability growth within our center. Ultimately, it would be very useful to coordinate a face-to-face with a follow-up meeting that we are planning (to the one we had in December) in Ann Arbor with Matt Spears so that we could get some additional input and open discussion from others within OTAQ at that time. For now, I'd just like to get quick input from you regarding a best path forward.

If you could spare 5-10 minutes, please name a time and a number at which I could reach you.

Thanks,  
Dan

---

Dan Carder  
Director, Center for Alternative Fuels, Engines and Emissions  
Department of Mechanical and Aerospace Engineering  
Benjamin M. Statler College of Engineering and Mineral Resources  
West Virginia University  
Ph: 304-288-7917 (mobile)/ 304-293-0650 (office)  
Daniel.Carder@mail.wvu.edu

Message

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**Sent:** 11/13/2018 6:50:29 PM  
**To:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**CC:** Cook, Leila [cook.leila@epa.gov]  
**Subject:** RE: Meeting Request

Hi Dan,

Thanks for your note and congratulations on getting going on this project. I know how very hard it can be to get something like this going and that the first steps are always the hardest.

While I am personally a big believer in the value of research universities growing their laboratory facilities to better serve their students and their research mission, we do not generally provide the kind of letter that you are seeking. Commercial and public laboratories frequently seek an EPA endorsement that they can use as a "good housekeeping seal" for potential customers. For those, we definitely don't provide an endorsement believing the ISO auditing procedures are the more appropriate venue for laboratories to demonstrate they are properly run and managed.

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Thanks,

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Mobile: (734) 353-9623

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[Daniel.Carder@mail.wvu.edu](mailto:Daniel.Carder@mail.wvu.edu)



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[Bunker.Byron@epa.gov](mailto:Bunker.Byron@epa.gov)  
Phone: (734) 214-4155  
Mobile: (734) 353-9623

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**Sent:** Wednesday, June 14, 2017 1:13 PM

**To:** Bunker, Byron <[bunker.byron@epa.gov](mailto:bunker.byron@epa.gov)>

**Subject:** Call request

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Director, Center for Alternative Fuels, Engines and Emissions  
Department of Mechanical and Aerospace Engineering  
Benjamin M. Statler College of Engineering and Mineral Resources  
West Virginia University  
Ph: 304-288-7917 (mobile)/ 304-293-0650 (office)  
[Daniel.Carder@mail.wvu.edu](mailto:Daniel.Carder@mail.wvu.edu)

Message

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**From:** Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DDF7BCF023D241A9A477A2DC75D5901C-BUNKER, BYRON]  
**Sent:** 6/14/2017 5:38:09 PM  
**To:** Daniel Carder [Daniel.Carder@mail.wvu.edu]  
**Subject:** RE: Call request

Hi Dan,

Yes, I can make time for a call. I am available now until 2 PM and then again between 3 and 4. Tomorrow is booked solid, but I can make time on Friday.

Just call my office now (734) 214-4155 or let me know if another time will work and I can call you then.

Thanks,

Byron

\*\*\*\*\*

Byron Bunker  
Director Compliance Division  
Office of Transportation and Air Quality  
Environmental Protection Agency  
2000 Traverwood Drive  
Ann Arbor, MI 48105  
[Bunker.Byron@epa.gov](mailto:Bunker.Byron@epa.gov)  
Phone: (734) 214-4155  
Mobile: (734) 353-9623

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**From:** Daniel Carder [mailto:Daniel.Carder@mail.wvu.edu]  
**Sent:** Wednesday, June 14, 2017 1:13 PM  
**To:** Bunker, Byron <bunker.byron@epa.gov>  
**Subject:** Call request

Byron,

Would you have any time for a call in the coming days?

Thanks,  
Dan

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Dan Carder  
Director, Center for Alternative Fuels, Engines and Emissions  
Department of Mechanical and Aerospace Engineering  
Benjamin M. Statler College of Engineering and Mineral Resources  
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